



• Manual TP298

List of Contents

1. Useful start-up information	4
1.1. Start-up support	5
2. General information / product description	9
2.1. General information	9
2.2. Product description	9
3. Safety information	10
3.1. General information	10
3.2. Properties of the thermal print head	10
4. Scope of delivery	11
5. Printer installation - printer configuration	13
5.1. Power supply	13
5.2. Computer connections	13
5.3. USB interface	14
5.4. RS-232 interface	14
5.5. Ethernet interface	14
5.6. Cutting unit	15
5.7. Printer configuration	16
6. Printer preparation	16
6.1. Insertion of the appropriate roller	16
6.2. Loading the thermal transfer ink ribbon	17
6.3. Loading the WAGO marking strips	19
6.4. Loading the WMB Inline	23
7. Printer driver installation	24
7.1. Printer driver installation	24
7.2. Printer driver settings for marking strips	27
7.3. Printer driver settings for WMB Inline	28

8. WAGO ProServe software	31
8.1. Installation of ProServe software	31
8.2. Design and inscription with smartDesigner	31
8.3. Inscription using smartMARKING	36
9. Printer maintenance	38
9.1. General	38
9.2. General cleaning	38
9.3. Cleaning the print roller	38
9.4. Cleaning the print head	38
10. Frequent questions	40
11. Registration form	41

1. Useful start-up information

Dear customer,

We are happy about your decision to utilize the WAGO thermal transfer printer TP298.

In addition to this manual, you receive a device that is preset for the WAGO "marking strips" (Art.-No. 2009-0110) and "WMB Inline" (Art. No. 2009-0115).

In order to simplify the start of these new marking techniques, we offer the following support options:

1. Start-up support and registration form
2. Manual TP298
3. WAGO ProServe 4.1 - CD
4. Telephone and e-mail service

Technical Support ProServe

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You can contact us

Monday through Thursday 8:00AM - 5:00PM
Friday 8:00AM - 3:00PM

During all other times please leave us a message - we will call back as soon as possible!

Please use this option, if you have questions regarding the ProServe software or the TP298 thermal transfer printer. We will gladly put our know-how at your disposal.

We wish you joy and success with your WAGO inscription products!

1.1. Start-up support

This section contains information required by you to begin working with WAGO inscription devices.

We have summarized the following data for you:

- Preset values for marking strip 2009-01 10 in smartDesigner
- Preset values for WMB Inline 2009-01 15 in smartDesigner
- IMPORTANT: Maintenance information for your thermal transfer printer

Local Settings

The local settings can be changed in the printer's menu. This procedure is shown in detail in the following example of changing the country from Germany to USA.



First press the "Menu" button on the printer. "Kurzstatus" appears on the display. Click twice on the right arrow until "Einstellungen" is displayed, followed by one click on the down arrow. "Regionaleinst." appears on the display.

Now click the down arrow. The display shows "Land-Deutschland". Then press the centre button of the arrow pad. Your country can be selected using the left/right arrow keys (e.g. USA). Once you have selected your country, click the ENTER button.

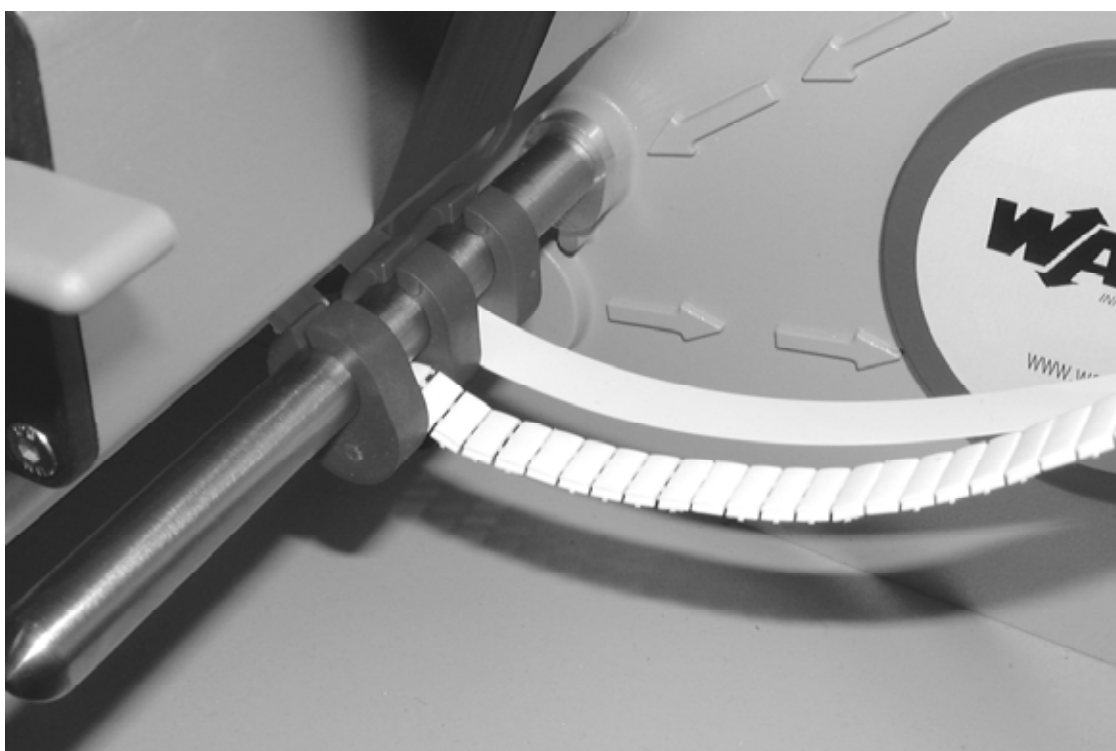
Clicking the up arrow takes you back to the main folder. "Local settings" is now shown on the display. Press the up arrow key again and the display will show "Setup". Press the left arrow three times to close the menu. "Ready" is displayed and the setting is complete.

1.1.1. Preset values for WAGO smartDESIGNER

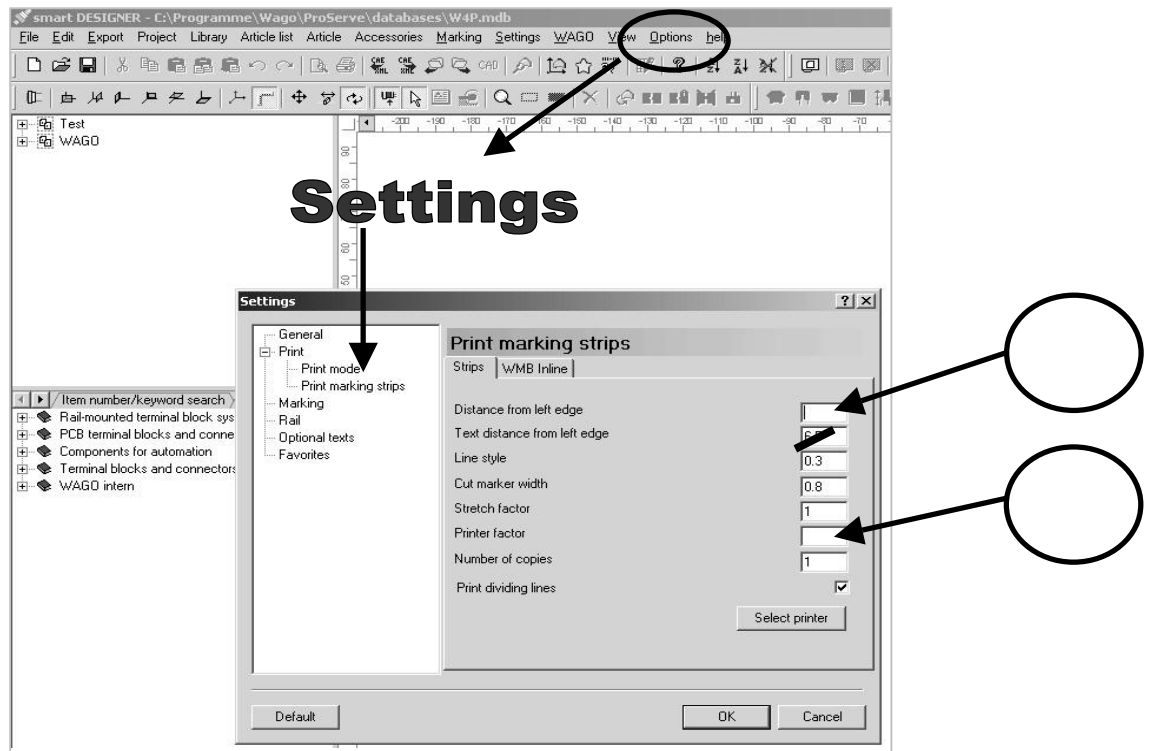
Prior to delivery, the TP298 printer was preset specifically for "marking strips" and "WMB Inline".

BEFORE you may print a marking strip, please note the printer driver installation in this manual and a short description of the WAGO ProServe software.

Here you can see the position of the WAGO inscription products marking strips (left) and WMB Inline (right). Please do not attempt to use both products at the same time!



Immediately prior to printing a marking strip from the smartDESIGNER, we would like to suggest the following settings that have been tested by WAGO. In smartDESIGNER, please activate the following settings:



Distance to left edge:

the set position is located left to the roller cut-out as seen from the front!

Distance of text to left edge:

please reduce this setting to at least "2".

Printing factor:

please correct the value shown above once in your smartDESIGNER after new installation.

Stretch factor:

this factor only serves as a correction factor for different lengths of the terminal strips produced. Please note the detailed description in your manual.

1.1.2. WMB Inline preparation

Prior to printing the WMB Inline, please take note of the manual's description of material handling and print light sensor settings.

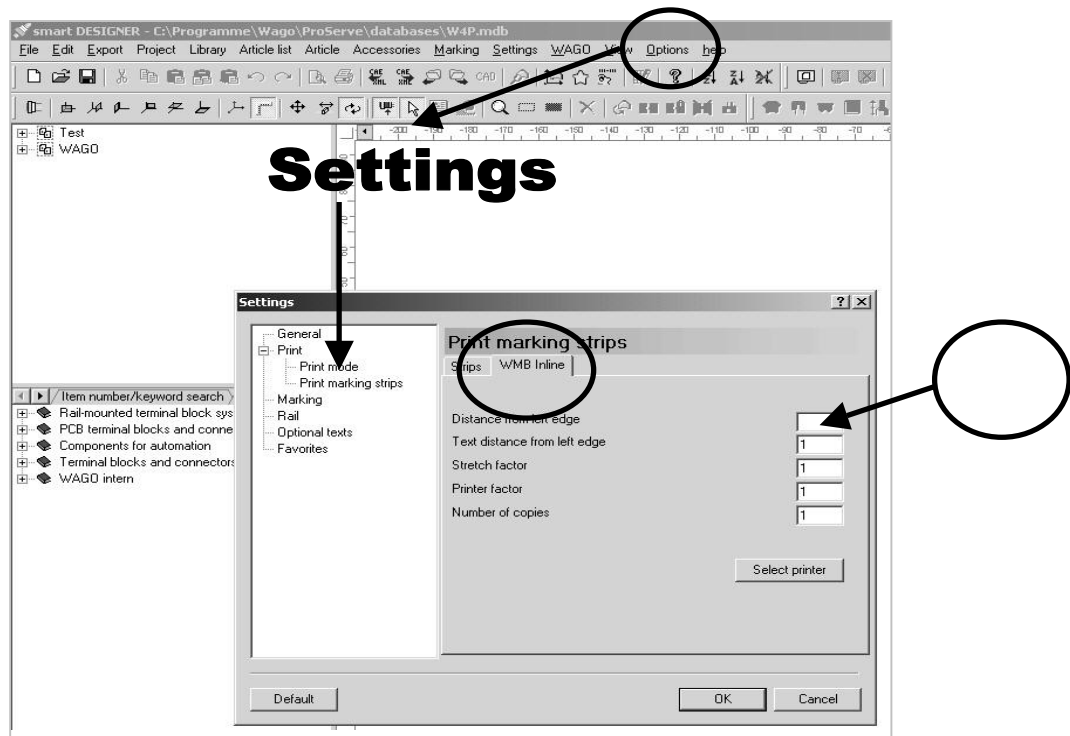
1.1.3. WMB Inline calibration

Upon completion of these steps, you start the printer and tilt the print head lever downward.

After some seconds, the FEED button will light up in green. Push the FEED button once. The printer will measure the existing labels within seconds (approx. 6-7 labels). When you then push FEED, each label will be advanced forward individually. The printer has correctly measured the WMB label and the gutter.

If this is not the case, please recheck the position of the print light sensor, turn off the device and restart the calibration process.

After you have created a project with WMB Inline inscription (2009-115) in smartDESIGNER, please note the following setting values prior to label output:



1.1.4. Maintenance information for the thermal transfer printer

The ongoing maintenance of the print head and the roller are essential for a long lifespan of these components.

When inscribing WMB Inline, you should clean the device after every second spool (3,000 WMB). When inscribing marking strips, you should clean the device after every 50 to 100 meters.

Maintenance instructions are found in the manual.

2. General information / product description

2.1. General information

By purchasing the innovative WAGO inscription system you have adopted the most cost-effective solution for terminal block labeling.

The new TOPJOB[®]S terminal blocks with CAGE CLAMP[®]S connection by WAGO offer new solutions in cost reduction in terminal block labeling. The center ceptacles for all terminal blocks with sizes from 1.5 mm² to 6 mm² and from 10 mm² to 16 mm² are aligned to the same level. This is a prerequisite for marking using a full length marking strip for terminal blocks of different diameters. The cost saving solution: The marking sequence assigned to the terminal block width can be automatically generated when creating the terminal block configuration using the WAGO smartDesigner program. Using these data, the marking strip is printed directly from a thermal transfer printer.

For terminal blocks with conductor cross-sections of 2.5 mm² to 95 mm², an additional label inscription on spools, WAGO WMB Inline, with 1,500 labels or 8,000 labels per spool is offered for printing using the same thermal transfer printer. The label mounting is simple, easy and cost-effective - one touch is enough.

The WMB Inline labels can be stretched from 5 to 5.2 mm, which means they can be attached to all 2.5mm² terminal blocks without singularization. In addition, they can be separated simply by turning them and then applying them individually to all rail-mounted terminal blocks.

Please observe all information in respect to the admissible print media and the notes on device maintenance, in order to avoid damages and premature wear and tear on your printer.

2.2. Product description

For printing on WAGO inscription materials, standard label printers are used after simple modifications. The TP298 printer is a label printer to be utilized either in direct thermal or in thermal transfer print, providing a nearly unlimited variety in the graphical design. The cast aluminum assembly enclosure assures optimum functional safety even in harsh conditions.

The integration of a 32Bit Motorola processor and a generously designed user memory of 8 MB provide print-outs in seconds.

The integration of a variable voltage power supply unit makes it unnecessary for the operator to adjust the printer to different system voltages. The modular design assures a quick and efficient service. As accessories to the TP298, an external winder and a cutting knife are available.

3. Safety information

3.1. General information

ATTENTION!

- This device may be used exclusively for the inscription of labels, endless paper and similar materials, and WAGO inscription materials.
- Connect the device using a power supply with suitable voltage. The device is designed for AC voltages between 100 and 240 volt. Connect the device using a plug with a PE terminal!
- The printer may be interfaced only to devices under protective extra-low voltages!
- Please assure that all devices to be interfaced (printer, computer, etc.) are turned off at the time of connection! The devices must also be turned off when the connections are to be interrupted.
- Please assure that the printer is protected from wetness!
- It is possible to operate the printer when the cover is open. In this state, rotating parts are accessible. Please assure that hair, jewelry or similar items will not be touched by those parts!
- The print head module may heat up during the printing process. Touch with caution!
- Do not perform any manipulations on the device beyond those described in the instruction manual! If you need to remove the safety labels to change settings, please contact WAGO support.

CAUTION! Do not open the back cover! Life-threatening voltages!

3.2. Properties of the thermal print head

ATTENTION!

The thermal print head is the most sensitive part of your printer. You must observe the following:

- The protective glass layer on the print head must not be touched by your hand. Do not use sharp objects (knife, screwdriver etc.) when cleaning the print head.
- Always assure during the print process that the inscription material is free of dirt and that dirt cannot be pulled under the print head. This may damage the head.
- Assure a proper and smooth inscription surface. Rough surfaces act like emery paper and reduce the print head's life span.
- **Clean the head regularly (see chapter 8).**
- Print at the lowest possible head temperature.

Your print head can easily be damaged when handled inappropriately. In such cases, your warranty claim is forfeited.

4. Scope of delivery

Please verify the printer condition immediately after its arrival to determine any possible transport damages.

ATTENTION!

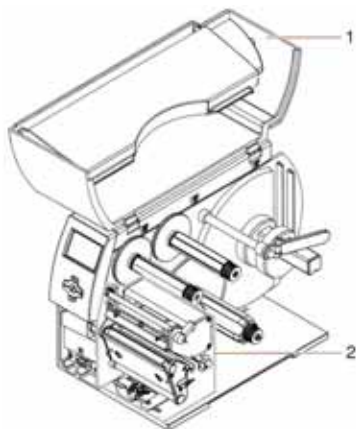
Please keep the original transport packaging for possible future transports.

The standard scope of delivery comprises:

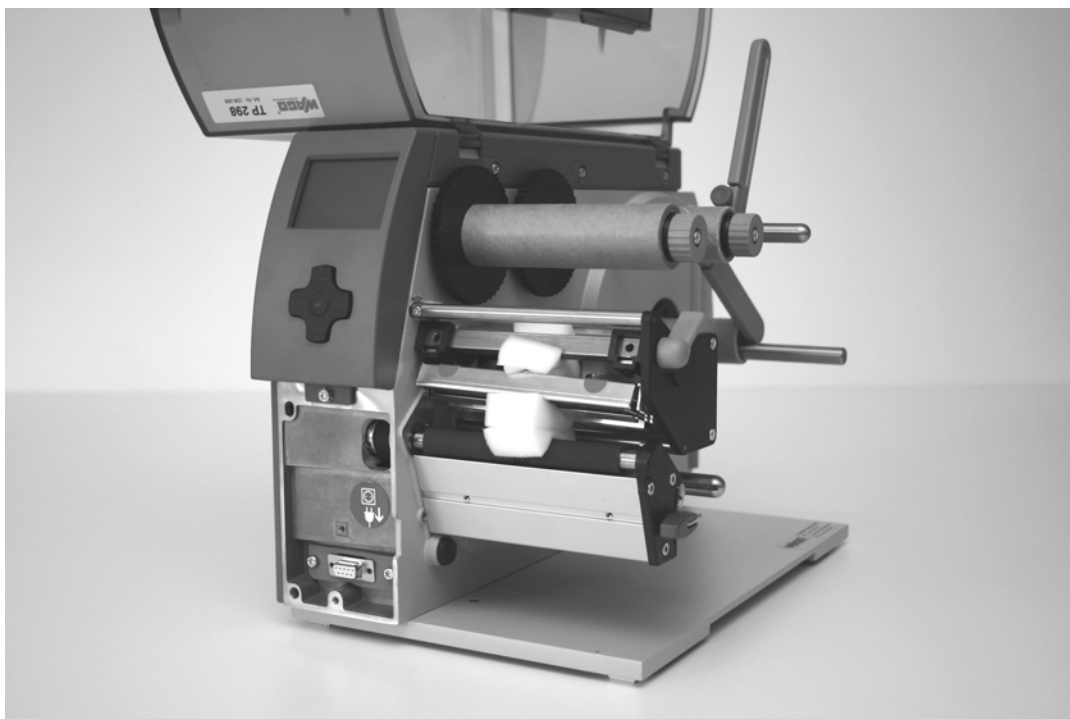
Thermal transfer printer TP298
Power cable
3m USB cable and 3m RS-232 interface cable
2 empty foil cores 100 mm
2 empty foil cores 35 mm
Operating instructions
WAGO ProServe CD
Registration form

REMOVAL OF TRANSPORT BLOCKS

- Lift label printer by its retaining loops from the box.
- Inspect the printer for transport damages.
- Position the printer on a level surface.
- Open the cover. → (1)
- Remove the transport block (foam pads) above and below the print head. Turn the side print head lever to remove the foam pads more easily. → (2)



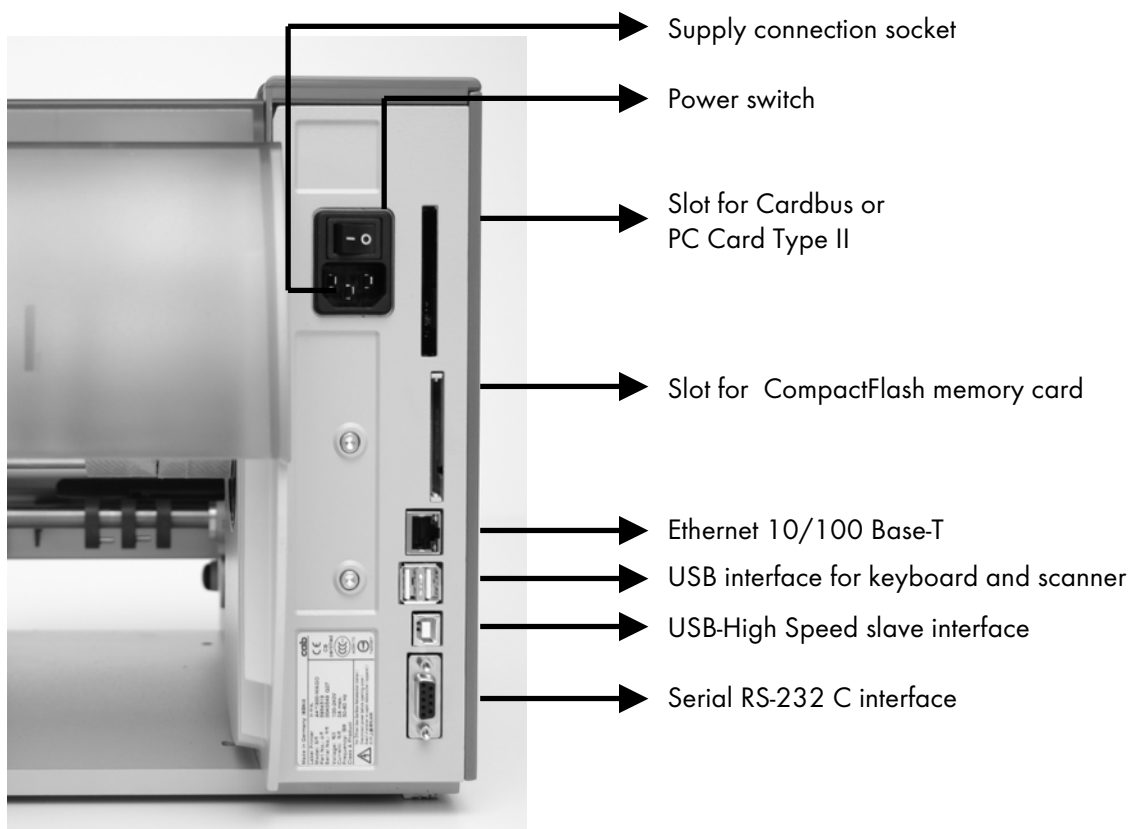
Please retain the foam pads together with the original packaging, because, in case of future transports, the print head should be secured as described above.



5. Printer installation - printer configuration

ATTENTION!

Never position the printer in a location where the device could be subject to dampness.



Prior to connecting the printer to the power supply, please assure that the power switch is in position "0" (OFF).

5.1. Power supply

Plug one end of the power cable, supplied as an accessory, into the device and the other end to a grounded wall outlet.

5.2. Computer connections

As standard, the TP298 features a serial RS-232 interface, an USB interface for local operation, and an Ethernet interface for connection to a network.

5.3. USB interface


Connect the computer to the USB interface of the printer, using the supplied A-B cable. Upon initiation of the printer, the computer detects the newly installed device and requests the installation of the printer driver. Please see also chapter 7.

5.4. RS-232 interface

Connect the computer and the printer using the cable supplied, and secure the cable connection with the screws and clips located on the plug-in connectors.

5.5. Ethernet interface

Connect the printer Ethernet interface to the network, using an RJ45 cable for 10 base T or 100 base T, respectively. You will require a patch cable for connection to the network jack, and a cross-over cable for a direct printer connection to the Ethernet card of a local computer.

 You must use a shielded cable for the printer connection!

At time of delivery, the printer is configured to obtain an IP address via DHCP from a suitable device in the network.

If your network does not provide a DHCP server, the DHCP must be deactivated. The printer has a factory-set IP address (192.168.000.077) which may be changed using the navigator pad. The preset Subnet Mask is 255.255.255.000.





When the display shows "Bereit" [Ready], click on button "Menu".

The term "Kurzstatus" [Short State] appears in the display. Click twice on the arrow to the right to "Einstellungen" [Settings], followed by one click on the arrow downward.

The term "Regionaleinst" [Regional settings] appears in the display. Click 3x on the arrow to the right to "Schnittstellen" [Interfaces], followed by one click on the arrow downward.

Then click 4x on the arrow to the right to "Ethernet", followed by one click on the arrow downward.

Within the first setting, you may activate or deactivate "DHCP", respectively. For changes, press the  key.

One step further to the right, you will find the IP address setting. Press the  key to modify the setting. Using the arrow buttons, any number can be entered.

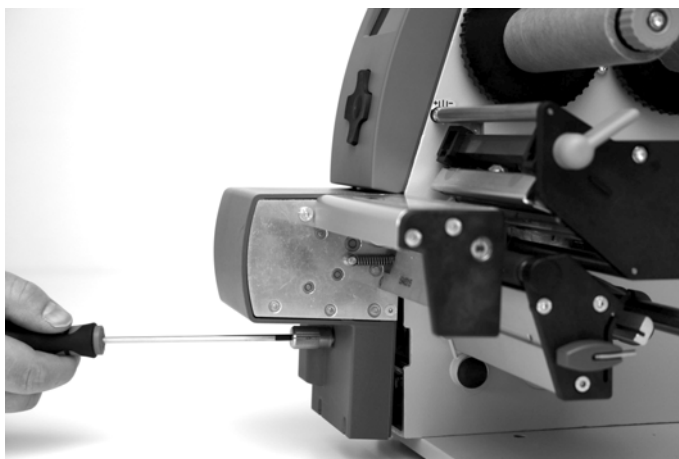
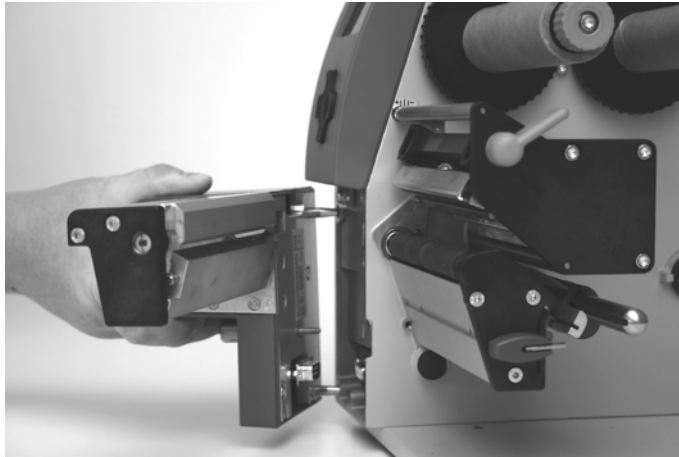
When all connections have been made, you may turn the printer on by actuating the power switch. The printer will run through a quick system check. Upon execution of the check, the button "Feed" and "Menu" in the navigator pad will light up. The printer is now ready.

5.6. Cutting unit

You can add a cutting unit (Item No. 258-161) to your printer, for automatically cutting the TOPJOB®S marking strips to their appropriate length.

The printer must be turned off when mounting (or demounting) the cutting unit!

First, you remove the plastic cover on the frontal left enclosure side (below the printer operator pad) by loosening the Allen screw.



The cutting blade is provided with two longer guiding pins on the rear. Make sure that these pins are seated in the bores of the printer enclosure. Then press the whole unit - possibly without jamming - with some slight pressure. Finally, hand-tighten the thumb screw on the knife front side.

5.7. Printer configuration

During the printer configuration, you may set a number of parameters, in order to configure your printer for the actual application situation. The internal parameters for regional, device, print, interface and security settings are factory-set to satisfy the requirements of WAGO products.

Changes, as they are required for the processing of different print jobs, can usually be realized by adjusting software settings.

6. Printer preparation

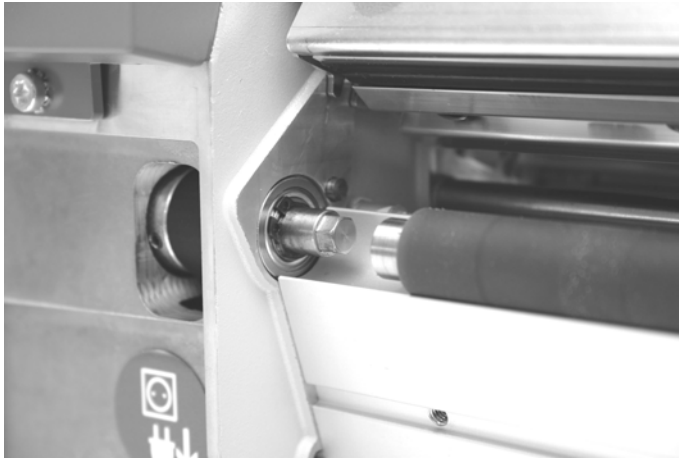
6.1. Insertion of the appropriate roller

The thermal transfer printer is supplied as standard with the roller suitable for inscribing the WMB Inline. You may also print marking strips for the series TOPJOB®S and for series 870 etc., using this roller.

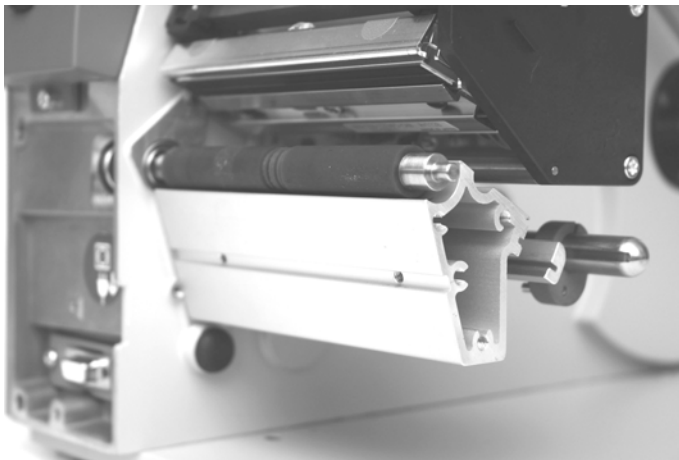
A print roller for label printing is also supplied. The print roller for WMB Inline is not suitable for label printing, due to its profile.

The roller exchange is very simple. Loosen the three screws on the side cover plate, using the tool supplied.





Pull the print roller from its guidance.



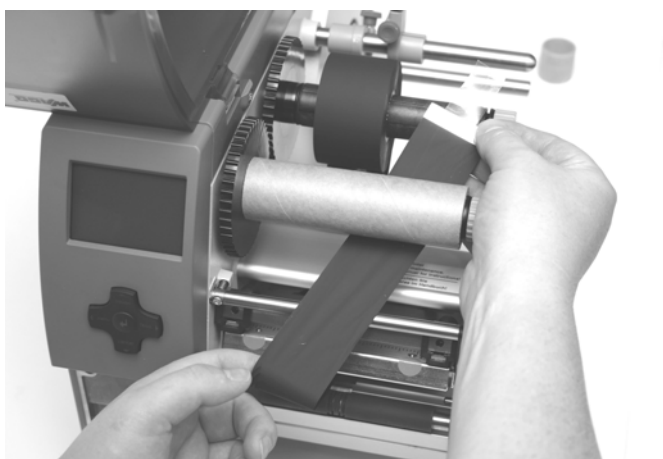
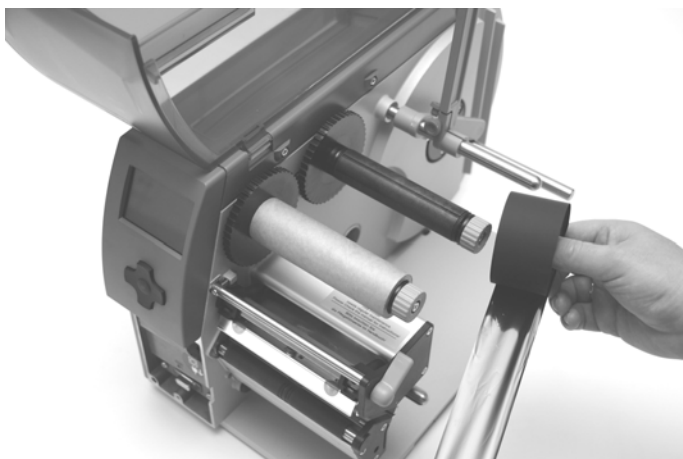
Slide the other roller into the guidance. Replace the cover and screw it back on.

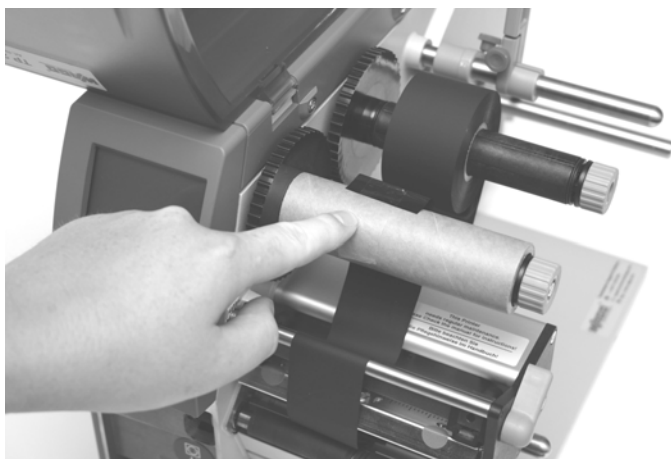
6.2. Loading the thermal transfer ink ribbon

For WAGO inscription materials, please use high-quality resin foil (Item No. 258-145). This foil is smudge-proof and scratch-resistant on the marking strips (Item No. 2009-110) and on WMB Inline (Item No. 2009-115) (see Appendix 1)

To insert the ink ribbon, turn lever **4** counterclockwise to the limit stop lifting the print head and then turn clockwise the nut of the roller holder **3**. Slide the ink ribbon onto the rear roller holder **2**.

Slide the ink ribbon so far onto the rear roller holder, that approx. 20mm space remains between ink ribbon and the enclosure wall of the printer.





Fixate the ink ribbon by attaching an adhesive strip to the cardboard core **1** on the front transport roller and turn the front roller somewhat into transport direction in order to slightly tension the ink ribbon.

Please note which side of the ink ribbon is coated. The coated side must not face the print head when inserting it. If you are not sure which side is coated, you can test the ribbon with some adhesive tape: the coated side will leave some residue on the adhesive tape.

The thermal transfer ink ribbon and the foil cores are now fixated to the front and rear transport rollers by a counter-clockwise turning of the nuts. For this you hold the ink ribbon tightly, and tighten the nuts until you feel resistance.

6.3. Loading the WAGO marking strips

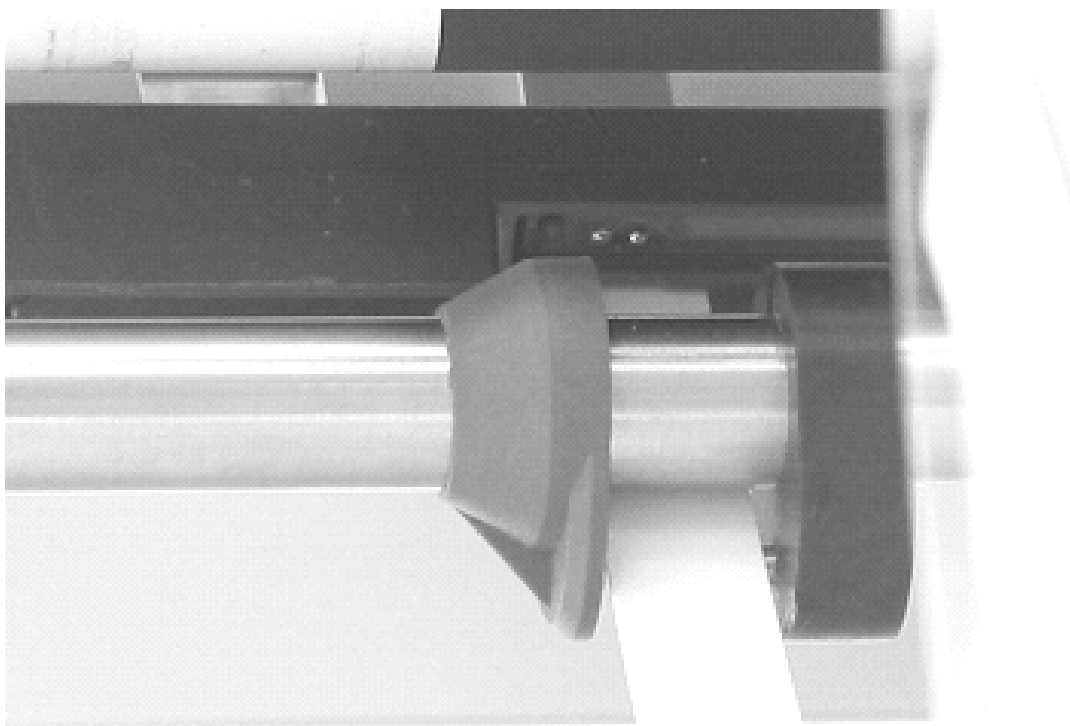
The following marking strips are available from WAGO:

2009-110	Strips for Series TOP JOB [®] S - width 11 mm - 50 m - white
2009-130	Strips for Series TOP JOB [®] S - width 11 mm - 300 m - white (requires an external unwinder, Item No. 258-169)
709-177	Strips for Series 870, 869, 862, 270 - width 7.5 mm - 50 m - translucent
709-178	Strips for Series 870, 869, 862, 270 - width 7.5 mm - 50 m - white
709-187	Strips for Series 870, 869, 862, 270 - width 7.5 mm - 300 m - translucent
709-188	Strips for Series 870, 869, 862, 270 - width 7.5 mm - 300 m - white

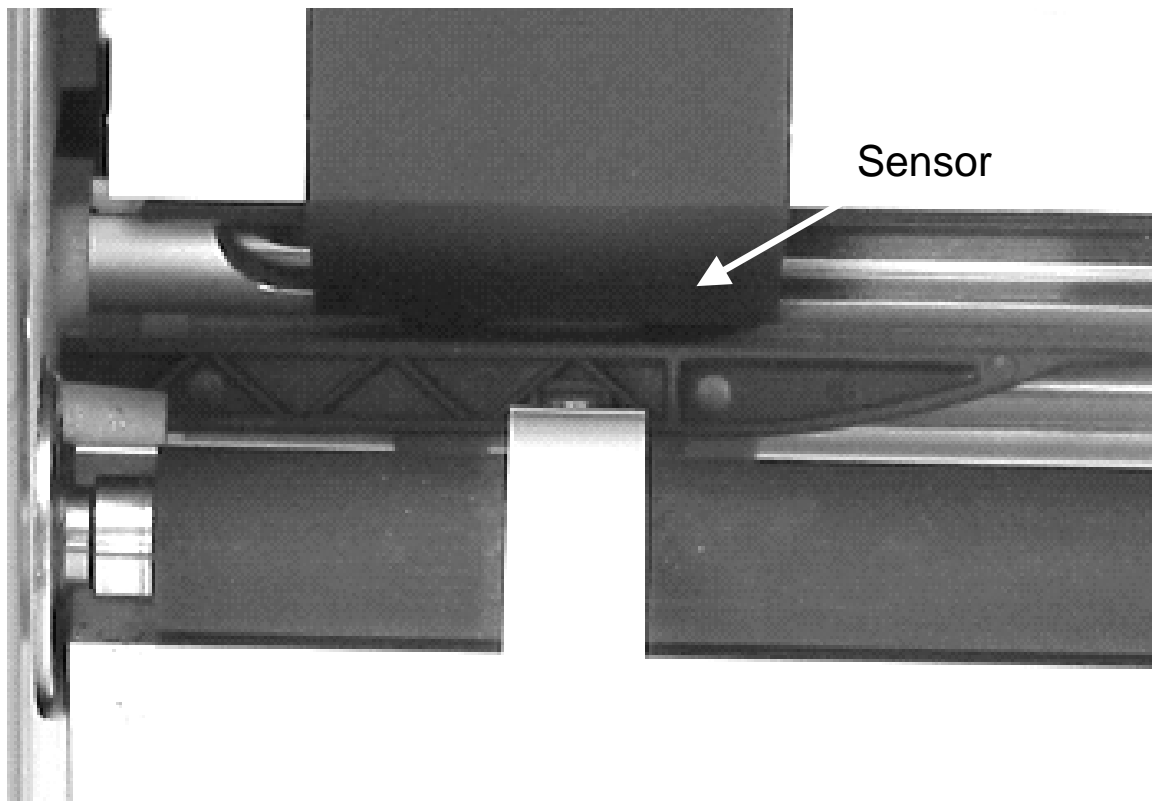
Make sure that the device is turned off. Insert the spool with the marking strip in such a way, that the inner side of the strips will be inscribed.



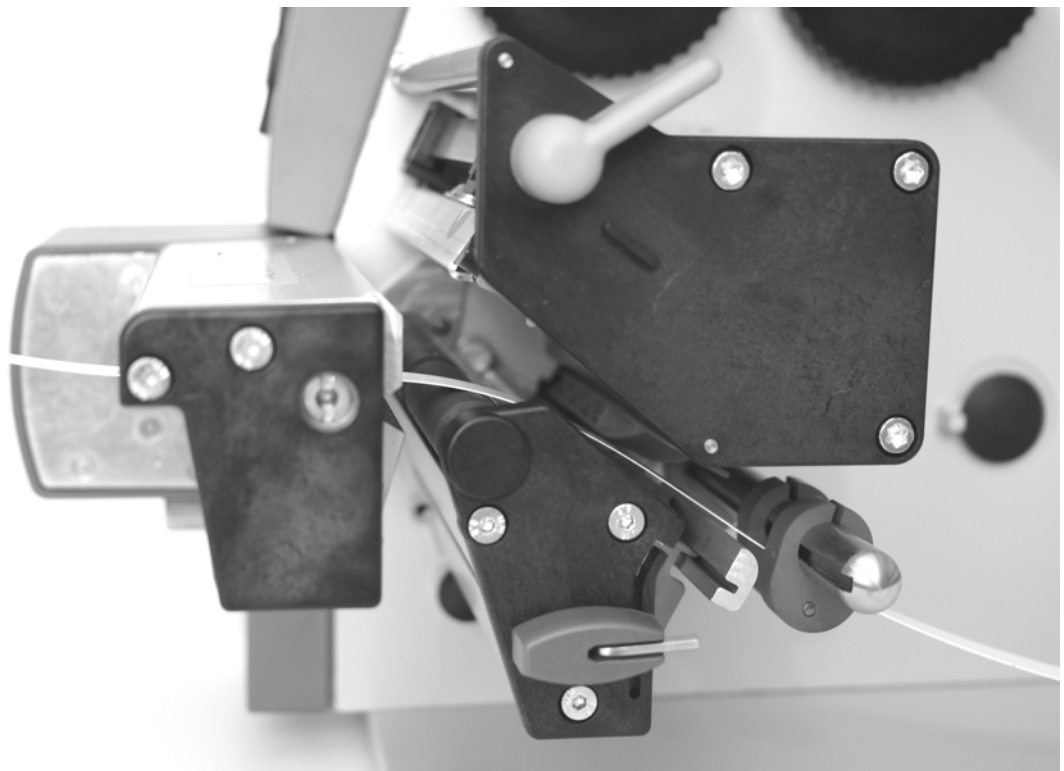
Guide the strip above the pin and between the two strip guide rails.

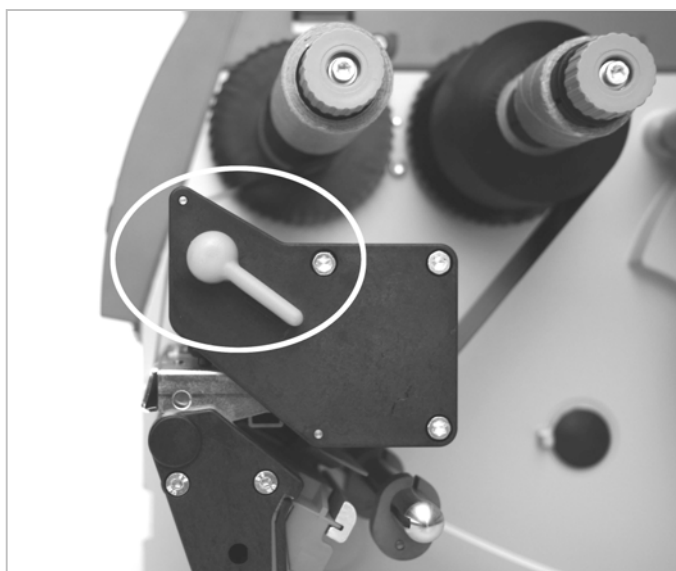
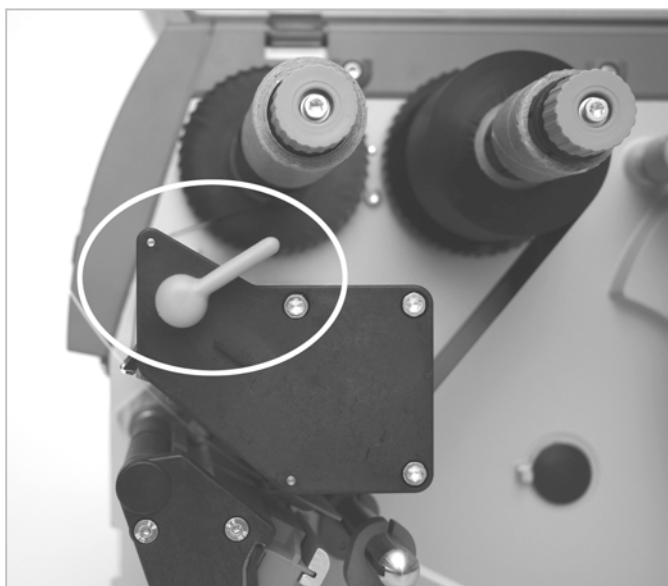


Then re-adjust the sensor. The strip must be guided between the sensor fork, the ink ribbon is laying above the sensor fork.



The following illustration shows an overview of the whole progress of the marking strip.





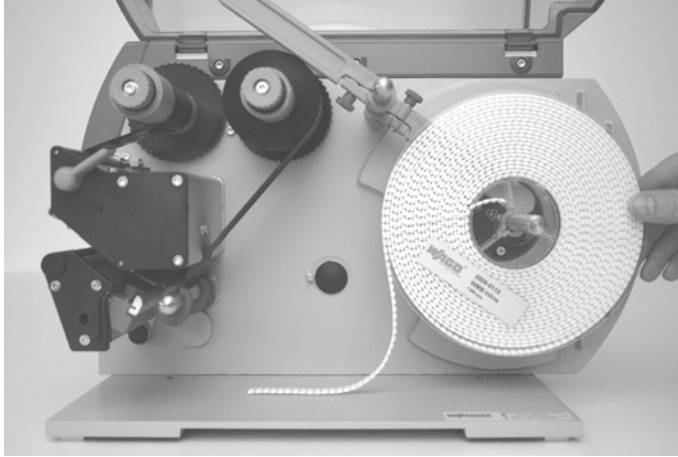
Now move the lever clockwise to its limit stop. This puts the print head in its printing position.

Always loosen the print head, when the printer is not in use for some time. This avoids abrasion and defects.

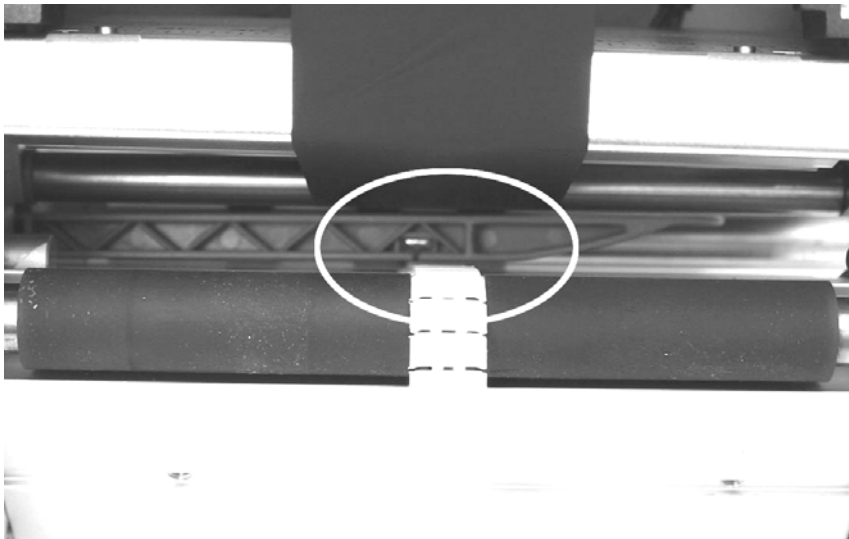
6.4. Loading the WMB Inline

Make sure that the device is turned off.

The insertion of the WMB Inline (2009-115) is performed analog to the insertion of the marking strip. Please note the following:



The spool must be inserted in such a manner that the upper side of the labels is printed and the follow-up guidance of the labels is assured. The spool, the red strip guidance and the material should be aligned to a straight line.



Sensor alignment: The sensor should be aligned to the left edge of the label, not centered to the label strip.

Verify the correct setting by turning the printer on and waiting until the FEED button lights up. Now press once on FEED. 8 labels will be pulled forward (calibration length). If, upon each FEED actuation, only one label is pulled forward, then the printer is ready for operation.

7. Printer driver installation

7.1. Printer driver installation

There are 3 options to control the TP298:

1. via the USB interface (not possible with Windows NT or Windows 98)
2. via the serial interface
3. via the network

The printer drivers are part of the WAGO ProServe CD. The installation is performed in Setup using the register "Downloads". Insert the CD into the CD-Rom drive. If the auto start function is activated, the menu will start automatically. If the auto start function is not activated, click on the file **proserve.exe**.



Select the valid printer and your operating system and follow the instructions of the installation routine.

Selecting the printer

Select Printer
Please select the manufacturer and printer you want to install.

Select the manufacturer and model of your printer. If the driver is in a different folder or your printer came with a driver diskette, click <Change location>. If your printer is not listed, consult your printer documentation for a compatible printer.

Manufacturers: CAB

Printers: TP298+

Change location...

Exit Help < Previous Next >

Please select the connection type:

- USB
- COM
- Network

Options

Printer Options
Please select port, printer name and language.

Enter the name for your printer. Also, select the port your printer is connected to. When you are done, select <Next> to install the printer and add an icon to the Printers folder.

Driver version: 4.1.01

Printer name: TP298+

Available ports:

- USB002
- USB001
- COM1:
- COM2:
- COM3:
- COM4:
- FILE:

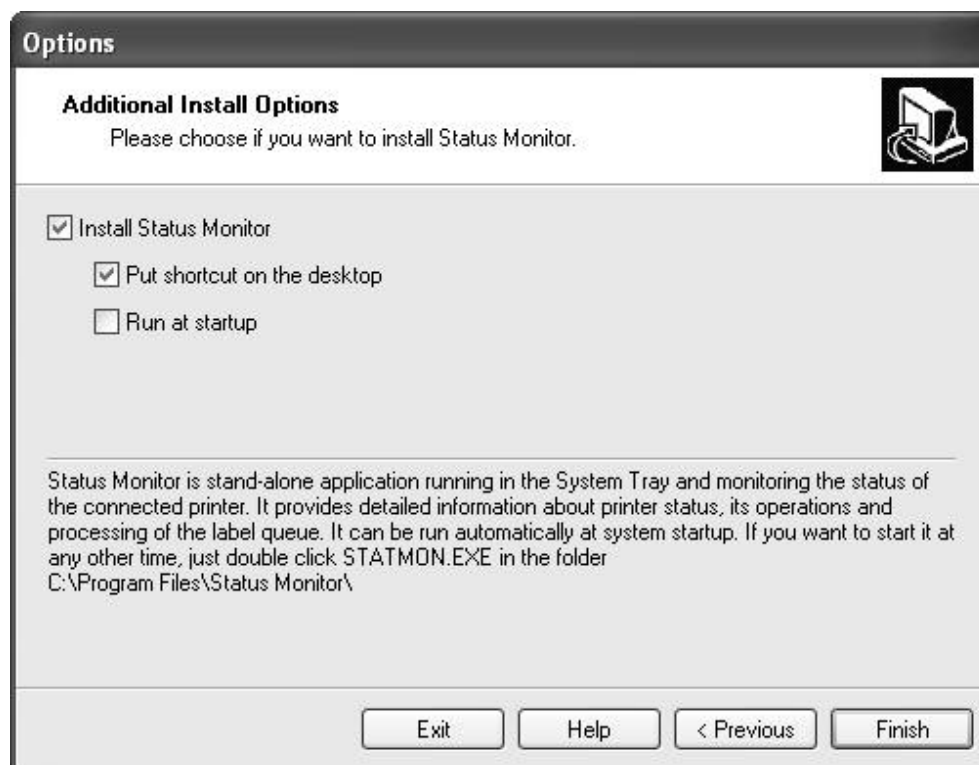
Add Port...

Delete Port...

☐ I want to use this printer as the Windows default printer.

Select language: English

Exit Help < Previous Next >



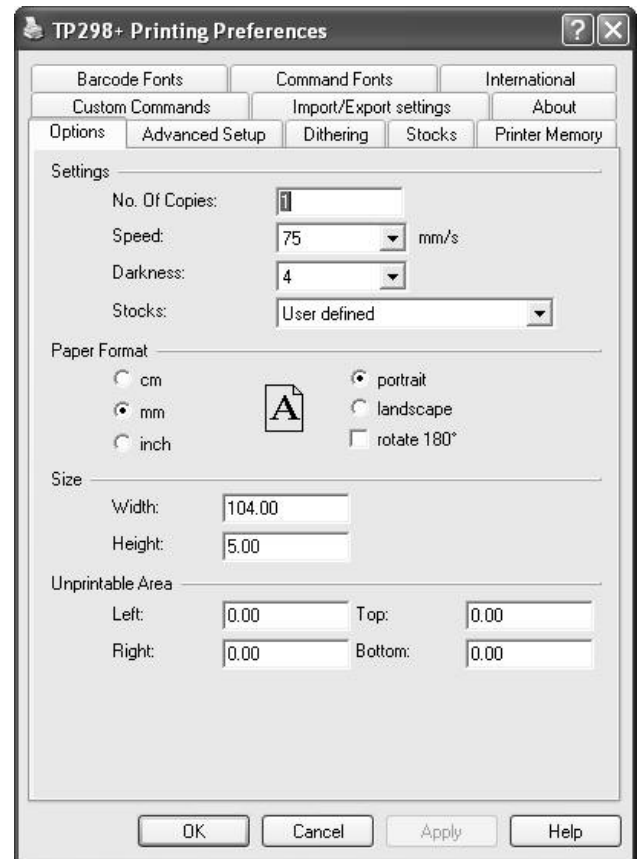
The status monitor is not mandatory for the driver operation and may be installed when required. The installation of the printer driver is completed.

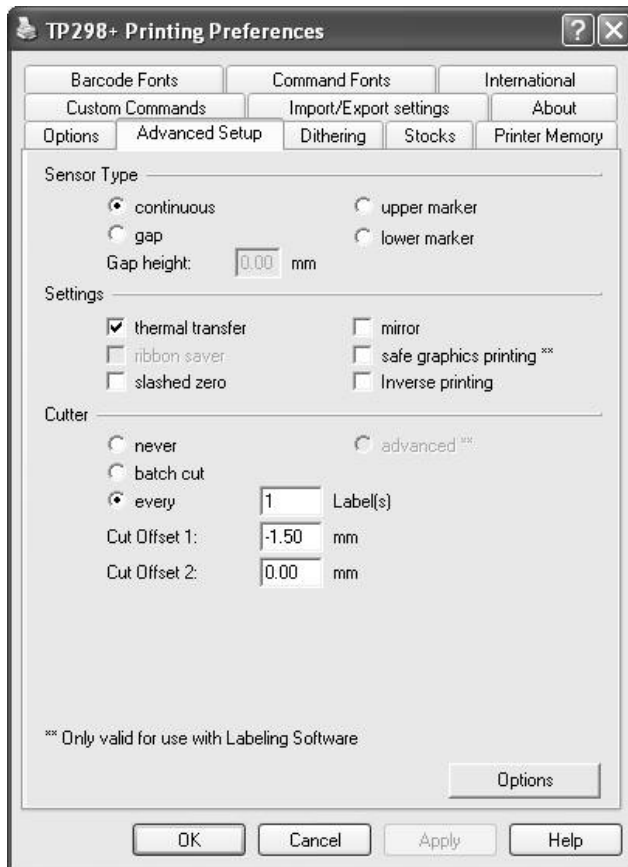
7.2. Printer driver settings for marking strips

In the Windows Printers folder, right-click on the corresponding printer (TP298) and select the entry "Printer setting" in the context menu.

The settings for print speed, print temperature and paper format can be set under Options. The illustration shows the optimum values for marking strips (Item No. 2009-110):

The settings for the sensor and for the cutting unit can be modified in *Advanced printer settings*. The following illustration shows the recommended settings for the inscription of marking strips (Item No. 2009-110).





These settings have been tested for the application of a cutting knife (Item No. 258-161). If you do not use a cutting knife, please activate in item *Cutting* the parameter *NEVER*.

The cutting offset is usually in the range between -1.0 mm and -1.8 mm, depending on the print head position. Please determine the appropriate offset by conducting test prints. Cutting offset 2 is usually set to 0 mm.

7.3. Printer driver settings for WMB Inline

The settings for the print on WMB Inline (2009-115) are shown below, analog to the recommended settings for marking strip print.

If the ink ribbon begins to tear or shows severe fraying at an early state of the printing process, the print temperature needs to be lowered.

TP298+ Printing Preferences [?] [X]

Barcode Fonts Command Fonts International
Custom Commands Import/Export settings About
Options **Advanced Setup** Dithering Stocks Printer Memory

Settings

No. Of Copies:


Speed: mm/s

Darkness:

Stocks:

Paper Format

☐ cm ☒ mm ☐ inch



☒ portrait ☐ landscape ☐ rotate 180°

Size

Width:

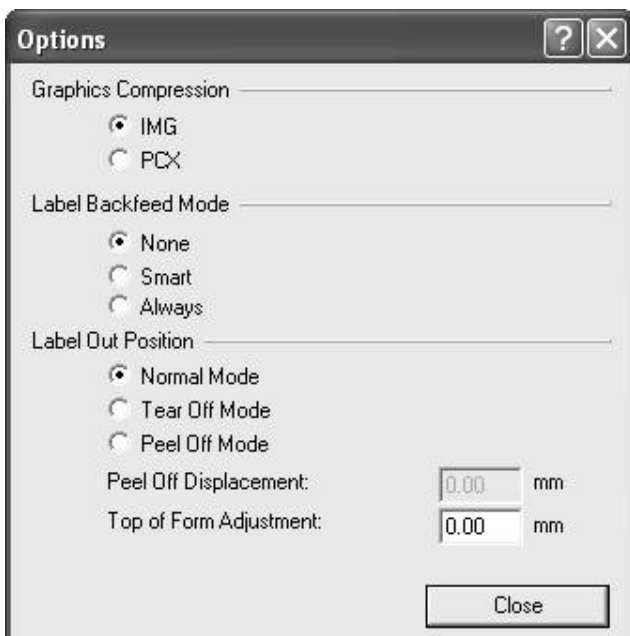
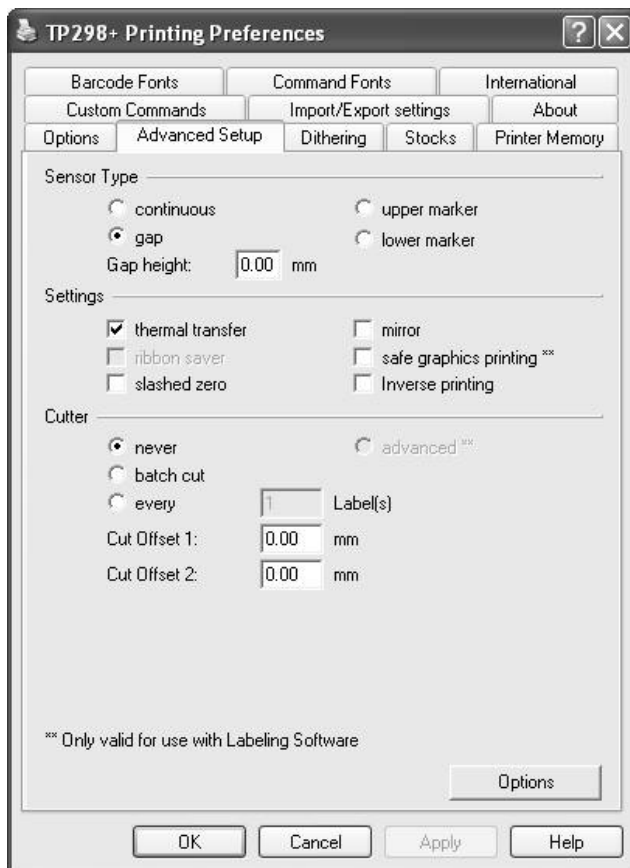
Height:

Unprintable Area

Left: Top:
Right: Bottom:

OK Cancel Apply Help

Advanced printer settings WMB Inline (Item no. 2009-115):



The print head offset is preset for the use with WMB Inline.

Please adjust the print head offset only minimally (in 1/10th increments upwards) if the imprint on the WMB labels shifts horizontally downwards. This may occur after a certain time of use.

8. WAGO ProServe software

The following section introduces two other components of the ProServe CD: the programs smartDESIGNER and smartMARKING.

Both programs are very well suited to quickly and easily print marking strips (Item no. 2009-110) and WMB Inline (Item no. 2009-115) on your new printer.

8.1. Installation of ProServe software

Start the installation routine from the ProServe CD (see also section 6.1). Select "Installation" and click on the corresponding icons to initialize the complete installation. Follow the instructions as given during installation.

Other information to setup (e.g. the uninstallation of an older software version) can be found in the Quickstart brochure in PDF format on the ProServe CD in the directory `\Manuals\SmartDesigner_and_productLocator`.

8.2. Design and inscription with smartDesigner

8.2.1. Creating a new project

- Creating a new project group in menu item *Project* - "Insert project group". A project group is a common folder for e.g. all projects of a customer, a control cabinet, etc.
- Right click on the project group and select the item *Insert mounting rail*. The mounting rail dialog opens where other settings can be made.

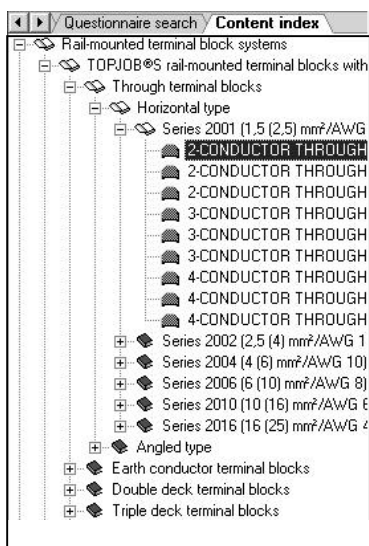
Position	Length	Diameter	Width	Shape	Screws
0.00	25.00	0.00	5.20	Long bore	
36.00	25.00	0.00	5.20	Long bore	
72.00	25.00	0.00	5.20	Long bore	
108.00	25.00	0.00	5.20	Long bore	
144.00	25.00	0.00	5.20	Long bore	
180.00	25.00	0.00	5.20	Long bore	
216.00	25.00	0.00	5.20	Long bore	
252.00	25.00	0.00	5.20	Long bore	

8.2.2. Planning

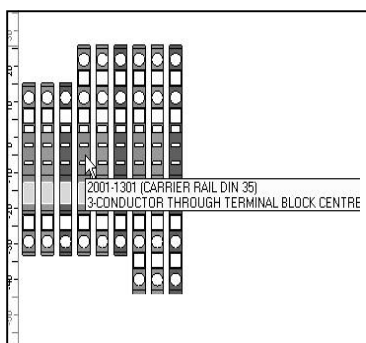
Direct input of article number - click on "ADD"



Via Drag & Drop from the library tree / index

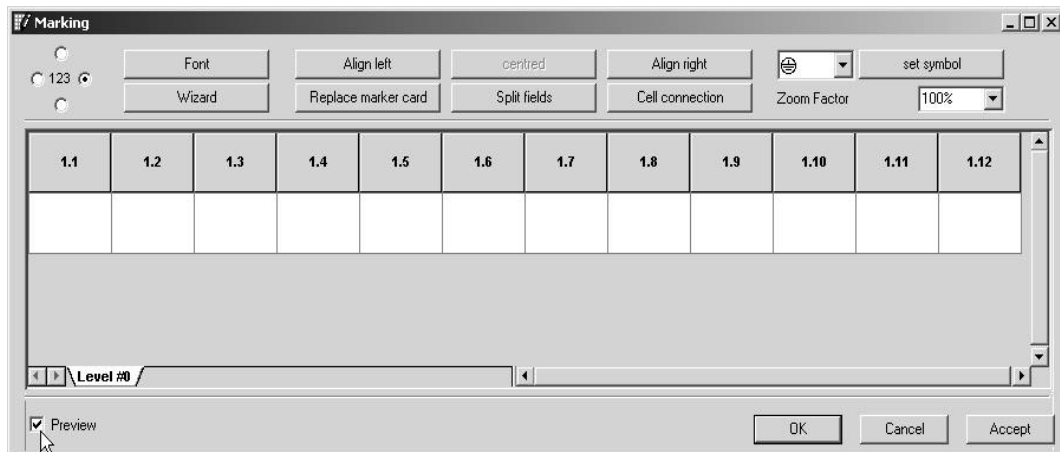


Via Drag & Drop from the library display

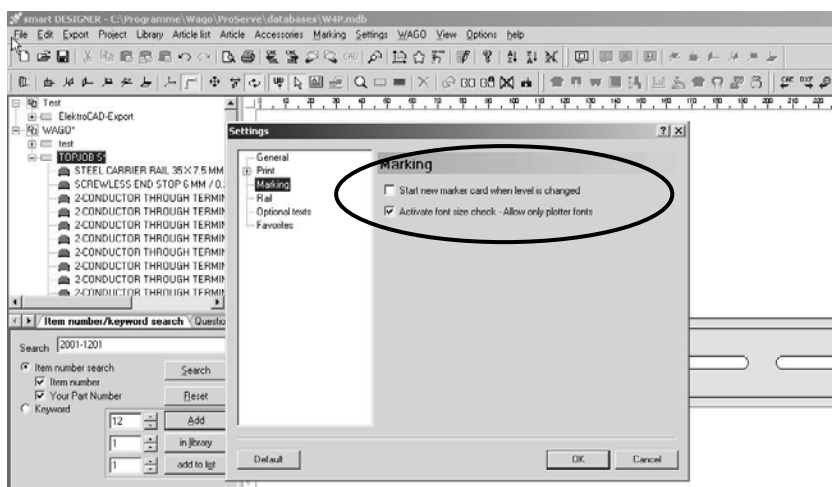


INSERT ARTICLE SEVERAL TIMES

- Input of an article number and change of quantity - click on "Planning"
- Via Drag & Drop from library display by holding shift key.
Input of quantity.

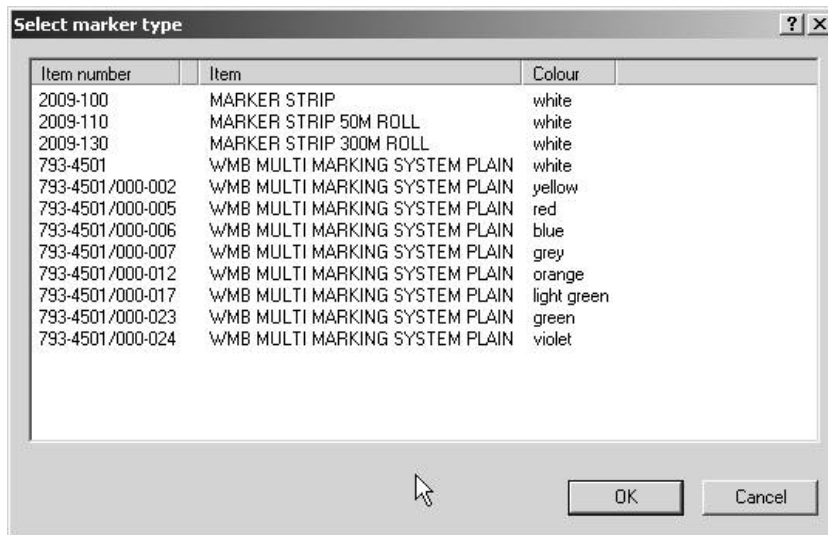


8.2.3. Inscription of planned terminal blocks



First deactivate the item Activation of font size check > Limitation of fonts in the menu item Options > Settings.

- Section of the inscription surfaces (multiple selection possible using Shift or Ctrl).
- Click on button *Inscription table* or
- Select menu item *Inscription - Inscription table*
- Selection of marking strip or WMB Inline



- Either direct input of inscriptions in the table, or selection of cells of the inscription table and inscription using the Wizard.
- Output of inscription via menu item "Inscription - Print marking strip" or "Inscription - print WMB Inline".

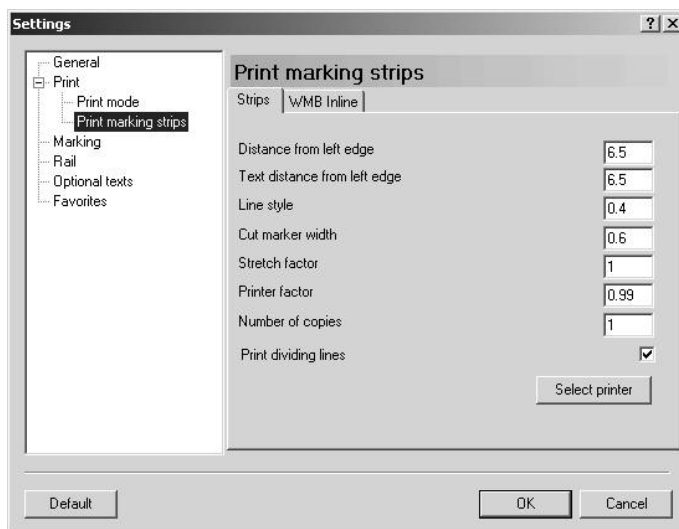
8.2.4. Settings in smartDesigner

To obtain optimum print results on the marking strips or WMB Inline, please make the following settings in the software.

Settings for the inscription of marking strips 2009-110 as follows:

Please select menu item "Options" > "Settings".

The following formatting parameters can be set in the area "Strip print":



DESCRIPTION OF PARAMETERS

Distance to left edge

The distance to the left edge is variable and depends on the position of the strip in the device (between 5 and 80 mm).

Text Distance from left edge

The preset standard value does not usually require modification.

Line thickness

Grid lines are the separating lines between the individual terminal block inscriptions. Their thickness value should not be larger than 0.5.

Separating line thickness

The thickness of the lines at the end of a strip (= cutting edge).

Stretch factor

If you are planning 100 terminal blocks with a width of 5 mm next to each other, you theoretically require a strip with a length of 50 cm. In reality however, the terminal block may be a bit longer and you require a strip with a length of e.g. 50.2 cm. This is quite normal, because small gaps may occur between the individual terminal blocks.

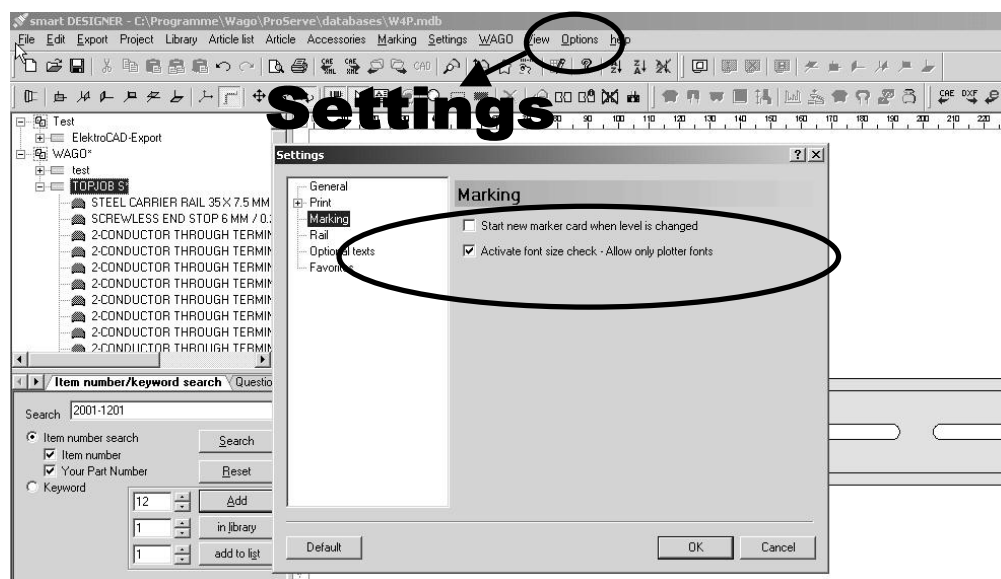
The stretch factor results from: true strip length / theoretical strip length. Using the above example:
 $50.2 \text{ cm} / 50 \text{ cm} = \underline{1.004}$

Printer factor

For each printer, the printer factor is determined by the factory prior to delivery. The value for your printer is found in the attached "Important Information". This value should not be changed at a later date.

Use of TrueType fonts in smartDESIGNER

Please deactivate the following options in "Options > Settings > Inscription":



Number of print-outs

(= Number of copies)

Print separating line

The separating lines can be deactivated here.

Printer selection

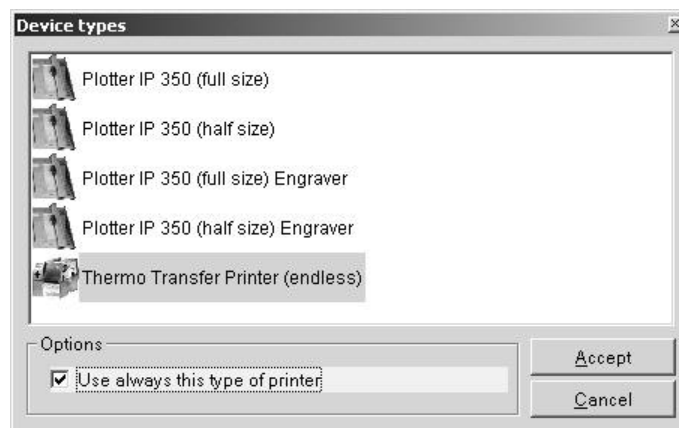
Here you activate the desired printer for printing the strip.

Settings for WMB Inline are performed in the same manner, however, the separating lines cannot be set, because separating lines are not printed in WMB Inline in principle, since WMB Inline is stretchable and can equalize certain tolerances.

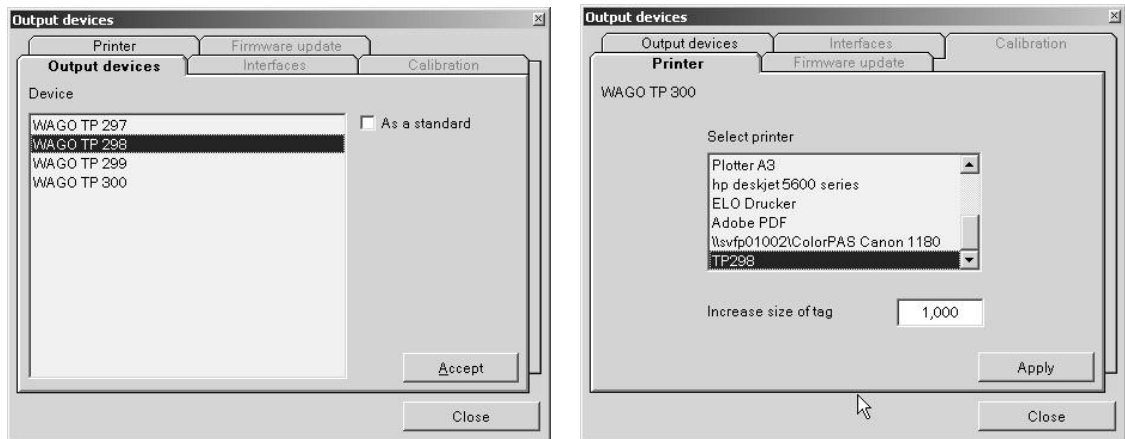
8.3. Inscription using smartMARKING

This section provides a short introduction to the printing of WAGO marking strips with your new TP298.

You start by creating a new project (Button *New* or menu *File >New*). As output device, please select *TT Printer (Roll)*.



Upon clicking *Accept* you reach the list of output devices after selecting the TT printer. All possibly connected thermal transfer printers are available here. Upon opening the tab *Printer* you have access to the installed printer drivers and can select the output device by clicking on the button *Apply*.



First, you click on the tab "Printer" and select the corresponding driver by clicking on the button *Apply* . You switch then to the area *Output devices* and select the desired output device. By clicking on the button *Close* you leave the output devices dialog.

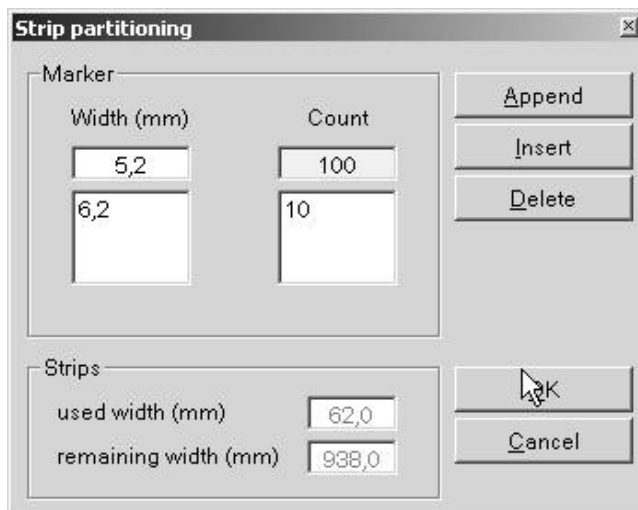
8.3.1. Selecting the inscription material for TT printer or plotter

Subsequent to the selection of the printer driver or the output device respectively, a dialog box opens with all inscription materials available for the thermal transfer printer or plotter.

The WAGO marking strip 11 mm has been designed for the inscription of the new terminal block series TOPJOB®S. The WAGO marking strip 7.5 mm is suitable for the series 870, 270, 869, as well as for the motor terminal blocks 281-530 to 281-532.

8.3.2. Creating a grid for WAGO marking strips 7.5 and 11 mm

By right clicking on the strip and selection of the menu item "Divide strip", the following dialog box appears:



The width of the individual terminal blocks (e.g. 5.2 mm for a TOPJOB®S terminal block of the Series 2002), and their quantity can be entered. The remaining residual length is calculated automatically, in order to generate a strip with a maximum length of 1 m, with different grid divisions.

9. Printer maintenance

9.1. General

The printer requires little maintenance.

A regular cleaning of the print head is very important. Only this assures a consistently good print image and contributes considerably to the prevention of premature wear and tear of the print head.

Attention!

The printer must be disconnected from the power supply prior to maintenance activities!

We recommend the following maintenance tools:

- Solvent 50 (strong adhesive label solvent) or
- undiluted alcohol (spirit)
- a soft, lint-free cloth or cotton swabs

9.2. General cleaning

During operation, dust particles will collect, especially in the area of the printing mechanism. Remove these particles with a soft brush or compressed air.

The external surfaces of the printer may be cleaned with a general purpose cleaner.

Caution: do not use abrasive cleaners or solvents!

9.3. Cleaning the print roller

Dirt on the print roller may result in a poor print image and impaired material transport.

Clean the roller as follows:

1. Disconnect the device from the power supply
2. Turn the print head away
3. Remove inscription material and transfer foil from the printer
4. Remove all deposits with Solvent 50 and a soft cloth

9.4. Cleaning the print head

During the print process, contaminations such as dust or ink particles from the transfer foil may accumulate at the print head.

This results in a considerable deterioration of the print image quality (contrast differences, appearances of bright, vertical streaks).

In this case, the print head requires cleaning.

We recommend the following cleaning intervals.

Thermal transfer print – marking strips 2009-110:

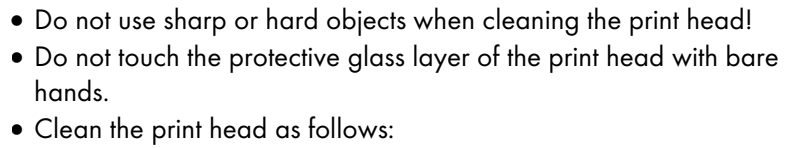
to be cleaned after 50 to 70 m printing; if a deterioration of the print image is observed earlier, cleaning should be commenced immediately.

Thermal transfer print – WMB Inline 2009-115:

after each printed spool

Thermal transfer print – label printing:

cleaning after each transfer foil roll change

- 
- Do not use sharp or hard objects when cleaning the print head!
 - Do not touch the protective glass layer of the print head with bare hands.
 - Clean the print head as follows:

1. Disconnect the device from the power supply
2. Turn the print head away.
3. Remove the labels and transfer foil from the printer
4. Clean the print head surface

10. Frequent questions

Fault	Possible cause	What to do
Printer does not react	Printer is not turned on	Check the power supply and turn on printer
Printer is turned on / does not react	PC connection faulty	Check the PC connection via
Printer does not react	False printer driver is active	When utilizing several USB connections under Windows 2000/XP, the driver creates itself as COPY. Therefore, it is possible that the driver activated in smartDESIGNER is actually OFFLINE.
The printer reacts for a short time, CANCEL and ERROR light up, PAUSE flashes	Sensor set incorrectly	Align the sensor via the material
Printer advances strip without stopping automatically	Incorrect driver setting	Push CANCEL; the setting "Gap" is selected in the driver, instead of "Endless"
Printer produces correct strip length, but no print image	Print head lever is not in correct down position	Set print head lever to 9:00 AM position
Printer produces correct strip length, but no print image	Ink ribbon incorrectly placed	The coated side must face the material (link)
Printer produces correct strip length, but no print image or only the grid separator lines can be seen	Edge setting in smartDesigner incorrect	Check settings
With cutting unit present, the printer does not cut	Incorrect driver setting	Push CANCEL; the cutting setting in the driver is set to "never", instead of "every 1 label".
Where a cutting unit is present, an empty strip of equal length is produced after correctly printed strip production.	Incorrect driver setting	Push CANCEL for cancellation; the cutting setting in the driver is set to "Cut at the end of job", instead of "Every 1 label".
Printer starts printing, stops during the job; CANCEL and ERROR light up, PAUSE flashes.	Transfer foil unwinder not turned tightly	Tighten the transfer foil unwinder by turning the green set screw.
Printer correctly produces strip, but image is very faint	Printing temperature set incorrectly	Check settings
Printer correctly produces strip, but image is very faint or smudged, shows white spots	Print head dirty	Please clean print head (link)
Ink ribbon tears	Printing temperature too high	Reduce printing temperature in the printer settings
Ink ribbon tears	Tension of the ink ribbon winder too high	Please contact the ProServe Support Hotline

11. Registration form

If you cannot find the registration form for the printer, please complete this form and return to WAGO:

Fax No.:
++49 (0)571 - 8 87 86 56

or via e-mail to:
support.proserve@wago.com

Your device:

Item No. : 258-298

Driver/Firmware: xxxxxxxx/xxxxxxxx

Software: ProServe V4.1 - CD001

Manual: Version 1.0

Please complete your information here:

Company: _____

Contact/Dept.: _____

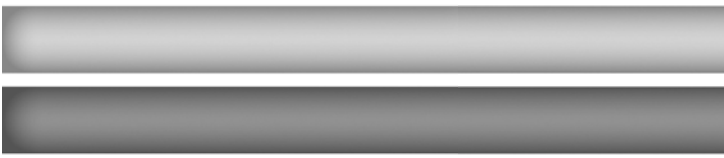
Address: _____

Phone: _____

Fax: _____

E-mail: _____

Thank you very much. When you are registered, your software will be updated regularly and we will let you know about any changes in drivers or firmware. We wish you much joy with your new device.



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